

## ABSTRACT

Disclosed is an automated method for generating program modules used for controlling field devices by means of a machine-readable parametered description of the field devices. The inventive method is used with a control unit controlling the field devices. Each of said field devices comprises control devices with at least one microprocessor, at least once electronic storing means, and data input and output means for communicating with the control unit. The novel method consists of the following steps: the parameters of the field device contained in the description are detected; the control-relevant characteristics of the respective parameters, which are defined in the description, i.e. particularly the type of data, size, allowed variables or allowed range of variables, are detected; program modules are generated for the control device of the field device, which can be executed by the microprocessor of the field device and are least in part based on the detected parameters and/or the detected control-relevant characteristics of the parameters.